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RECORDATION FORM COVER SHEET

PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

George A. Hariman (11/10/2004) and Kenji Tomiyoshi (11/10/2004)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): In parentheses after inventor name

- ☒ Assignment ☐ Merger ☐ Change of Name
☐ Security Agreement ☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: National Semiconductor Corporation

Internal Address: _____

Street Address: _____

2900 Semiconductor Drive

City: Santa Clara

State: California

Country: United States of America Zip: 95051-8090

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s)

10/987,107

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: John W. Branch
DARBY & DARBY P.C.

Internal Address: Atty. Dkt.: 08211/0201519-US0/P06099

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State: NY Zip: 10150-5257

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Email Address: jbranch@darbylaw.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number 04-0100

Authorized User Name John W. Branch

9. Signature:

Matthew M. Gaffney
Signature

March 22, 2006

Date

Matthew M. Gaffney - 46,717

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

Attorney Docket No.: 08211/0201519-US0/P06099

ASSIGNMENT

I, George A. Hariman, a citizen of Indonesia, residing at 125 Connemara Way,
#118; Sunnyvale, California 94807; and

I, Kenji Tomiyoshi, a citizen of Japan, residing at 10210 Parkwood Drive;
Cupertino, California 95014

and each of us, if more than one person is identified above (hereinafter "ASSIGNOR") in
consideration of the sum of Ten Dollars (\$10.00), or the equivalent thereof, and other good and
valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged,
paid to ASSIGNOR by

National Semiconductor Corporation

a Corporation organized under the laws of Delaware, located at 2900 Semiconductor Drive,
Santa Clara, California 95051-8090 (hereinafter "ASSIGNEE"), do hereby sell and assign to
said ASSIGNEE, its successors and assigns, the below indicated right, title, and interest,
throughout the world in and to my Invention entitled:

SYNCHRONIZED FREQUENCY MULTIPLIER FOR MULTIPLE PHASE PWM CONTROL SWITCHING REGULATOR WITHOUT USING A PHASE LOCKED LOOP

invented by me and described in the specification bearing the above Attorney Docket No. and
title executed by me concurrently herewith; and all patents, divisions, reissues, continuations
and any extensions thereof and rights of priority therein, said interest being my entire
ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors,
assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as
the same would have been held and enjoyed by me if this assignment and sale had not be made;

And for the consideration aforesaid, I hereby covenant and agree to and with said
ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or
representative, or the counsel or representative of its successors or assigns, shall advise that an

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amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, I will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law;

And I hereby authorize and request the Commission of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date corresponding to the last date of execution.

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I have signed this document as my own free act and that all of the foregoing is true and correct.

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George A. Hariman

Date: 11/10/04

United States of America

State of

County of

California ss.:
Santa Clara

On this 10th day of November 2004, before me personally came George A. Hariman, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public



Attorney Docket No.: 08211/0201519-US0/P06099

Kenji Tomiyoshi
Kenji Tomiyoshi

Date: 11/10/04

United States of America
State of California ss.:
County of Santa Clara

On this 10th day of November, 2004, before me
personally came Kenji Tomiyoshi, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Karen L. Metz
Notary Public



PATENT

RECORDED: 03/22/2006

REEL: 017365 FRAME: 0529